DO NOT ENTER: /M.A./

23 February 2011

0321.68812

#### PATENT APPLICATION

## IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Michael J. Sailor

Serial No.: 10/589,741

Conf. No.: 9856

Filed: 8/16/2006

For: OPTICALLY ENCODED PARTICLES

WITH GREY SCALE SPECTRA

Art Unit: 2876

Examiner: Michael S. Andler

Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450

# DECLARATION OF PRIOR INVENTION TO OVERCOME SAILOR U.S. PUBLISHED APPLICATION WO 2003/067231 (37 C.F.R. §1.131)

### PURPOSE OF DECLARATION

This Declaration is to establish completion of the invention as claimed in at least claim 18 of this application in the United States at a date prior to August 14, 2003, which is the date of publication of WO 2003/067231. The person making this Declaration is an inventor.

#### DECLARATION

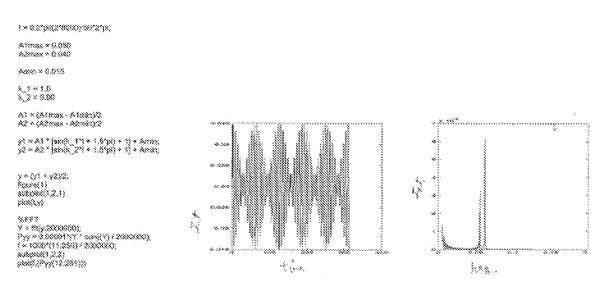
- I am a named inventor in the present patent application, and have personal knowledge of the facts stated herein.
- 2. I am Professor of Chemistry and Biochemistry and Bioengineering at the University of California, San Diego. I hold a B.S. degree in Chemistry from Harvey Mudd College, and M.S. and Ph.D. degrees in Chemistry from Northwestern University.
- The invention as claimed in at least claim 18 was completed before
   August 14, 2003.
- 4. The invention claimed in the present application in at least claim 18 was completed and conducted in experiments that produced grey scale photonic particles prior to August 14, 2003.
- 5. Specifically, the present application describes experiments on pages 6-7 with the following paragraph "Experiments were conducted to demonstrate the invention. Grey scale samples were prepared by anodically etching p++ type, B-dope, (100) oriented silicon with <1mOhm-cm resistivity in a solution of 3:1 HF (48%, aq)/ethanol by volume. Computer generated anodic current waveforms consistent with the above explanations for grey scale coding were applied and a platinum mesh electrode was used as the counter electrode. Results were consistent with expectations." These experiments were completed on July 9, 2003. An excerpt from the invention disclosure that my co-inventor, Shawn Meade, and I signed on August 14, 2003 indicating the

# reduction to practice by July 9, 2003 is shown below.

******	555555555666		***************************************	<u> </u>			
		£AZM3.E	0416	INDICATE THE SATISTICS RECORD IN Q., INDIANON, INTER- ANSEL IF ORAL DRICK OBURE, RESCATE TO WHOM.			
1.	indial	orrection of the idea	3038400	Sistations #1 of Status Meaning			
Ž.		gan cara cu mugan gan cara cu mugan	\$\$\$\$\$	Nickebook die of Steam Stagge			
3.		Substitution (Angliantica)	700000	Facilitation (1985) in 1985 (1985) Facility (1985)			
*	3588 B	AR WARE ROMAN					
	ŝ,	submitted for graniquency — N					
	8.	accepted for publication? No					
	88	Publisher? N					
3000000	00000000000						
8		of presented this work at a continuous or		*			
	ξ,	Cicli you audent an abelogo??					
	8	Was ababast published?		*			
	88	Name of continuous or maintag? I six					
	<b>\$</b>	Distribution indude handoute? N		5			
				* *			

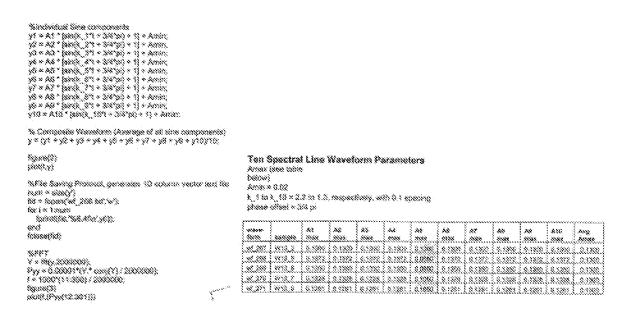
• •			
G. INVENTORS' SIGNATURES	9	H. WITNESS - invention di	actored to
By signature below, I adminished an increase the rights to regular dealing wider the covers the	reliables and	and undersi	
Supplied in the supplier of th	ment or constrain		
Marie Mode	8/14/03	7 / <b>m</b> / 4 / / / / / / / / / / / / / / / / /	.8/14/03
Constant grantifier	Clair	Works spesied	Date
of the state of th	8/14/03	Hachao Lin	
hisantar signatura	Cate	Print witness name	vas-
inventor signature	D1119		

6. The following data was taken from the reduction to practice that was completed on July 9, 2003 for samples with two spectral line ratiometric grey scale coding.



Sample	w/	\$3000x	Admex	£3	3.2	33	XX	A1:A2	1332	1382
WX 14	1838	35	48	373.8	634.88	2484	2828	ĭ	8.87	6.830368
388_12.1	1.23	40	433	200.00	55.835	2737	3828	1.325		0.8344667
305_16	3.2%	33	35	542.38	579,95	3333	2000	3.2867		8.854838
505 18	134	48	3%	482.38	833 57	348	2886	3.8		0.54217
305.18	128	88	48	588.69	633.50	3450	3000	1.28	1,5%	2.823833
398_19	. 327.3	\$8	35	800.90	623.00	3420	2860	1,07	1.28	0.830033
305.20	158	60	383	579.93	622,23	3430	1838	3	1.84	0.831827

 The following data was taken from the reduction to practice that was completed on July 9, 2003 for samples with ten spectral line ratiometric grey scale coding.



8. As a person signing below, I hereby declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true, and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment or both under 18 U.S.C. §1001, and that such willful statements may jeopardize the validity of this application or any patent issued thereon.

Declarant's Signature:

Michael J. Sailor

Date: Address: Friday, January 7, 2011 8224 Caminito Maritimo

La Jolla, CA 92122

Citizenship:

**USA**